

INTERNATIONAL SEARCH REPORT

5

International Application No
PCT/EP 03/09159

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01D19/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 080 828 A (TERAE NOBUYUKI) 14 January 1992 (1992-01-14) ----	
A	DD 145 153 A (HOFFMANN KLAUS; GOLDAMMER SIEGFRIED) 26 November 1980 (1980-11-26) ----	
A	GB 1 576 326 A (PROCTER & GAMBLE) 8 October 1980 (1980-10-08) ----	
A	DE 197 31 615 A (GEN ELECTRIC) 5 February 1998 (1998-02-05) -----	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *P* document published prior to the international filing date but later than the priority date claimed

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

12 December 2003

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Information on patent family members

International Application No

PCT/EP 03/09159

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5080828	A	14-01-1992	JP 1301757 A JP 2115652 C JP 7107134 B	05-12-1989 06-12-1996 15-11-1995
DD 145153	A	26-11-1980	DD 145153 A3	26-11-1980
GB 1576326	A	08-10-1980	AT 381963 B AT 396577 A BE 855418 A2 CA 1090056 A1 CH 627214 A5 DE 2724821 A1 ES 459456 A1 FR 2353632 A1 IT 1077225 B JP 53019497 A NL 7706120 A ,B, US 4139479 A	29-12-1986 15-05-1986 06-12-1977 25-11-1980 31-12-1981 15-12-1977 16-11-1978 30-12-1977 04-05-1985 22-02-1978 06-12-1977 13-02-1979
DE 19731615	A	05-02-1998	DE 19731615 A1 FR 2751889 A1 GB 2315757 A ,B JP 10113552 A	05-02-1998 06-02-1998 11-02-1998 06-05-1998